

10/518414  
DT01 Rec'd PCT/PTC 17 DEC 2004

## SEQUENCE LISTING

<110> Chr. Hansen A/S  
Maarten van den Brink, Johannes  
Harboe, Marianne K  
Rahbek-Nielsen, Henrik  
Petersen, Steen Guldager

<120> IMPROVED METHOD OF PRODUCING AN ASPARTIC PROTEASE  
POLYPEPTIDE IN A RECOMBINANT HOST ORGANISM

<130> P1031PC00

<140>  
<141>

<150> PA 2002 00922  
<151> 2002-06-17

<160> 1

<170> PatentIn Ver. 2.1

<210> 1  
<211> 323  
<212> PRT  
<213> Bos taurus

<300>  
<301> Gilliland, Gary L.  
Winborne, Evon L.  
Nachman, Joseph  
Wlodawer, Alexander  
<302> The three-dimensional structure of recombinant bovine  
chymosin at 2.3 A resolution.  
<303> Proteins  
<304> 8  
<305> 1  
<306> 82-101  
<307> 1990  
<313> 1 TO 323

<400> 1  
Gly Glu Val Ala Ser Val Pro Leu Thr Asn Tyr Leu Asp Ser Gln Tyr  
1 5 10 15  
Phe Gly Lys Ile Tyr Leu Gly Thr Pro Pro Gln Glu Phe Thr Val Leu  
20 25 30  
Phe Asp Thr Gly Ser Ser Asp Phe Trp Val Pro Ser Ile Tyr Cys Lys

35					40					45					
Ser	Asn	Ala	Cys	Lys	Asn	His	Gln	Arg	Phe	Asp	Pro	Arg	Lys	Ser	Ser
50						55					60				
Thr	Phe	Gln	Asn	Leu	Gly	Lys	Pro	Leu	Ser	Ile	His	Tyr	Gly	Thr	Gly
65					70					75					80
Ser	Met	Gln	Gly	Ile	Leu	Gly	Tyr	Asp	Thr	Val	Thr	Val	Ser	Asn	Ile
				85					90					95	
Val	Asp	Ile	Gln	Gln	Thr	Val	Gly	Leu	Ser	Thr	Gln	Glu	Pro	Gly	Asp
			100					105					110		
Val	Phe	Thr	Tyr	Ala	Glu	Phe	Asp	Gly	Ile	Leu	Gly	Met	Ala	Tyr	Pro
		115					120					125			
Ser	Leu	Ala	Ser	Glu	Tyr	Ser	Ile	Pro	Val	Phe	Asp	Asn	Met	Met	Asn
	130					135					140				
Arg	His	Leu	Val	Ala	Gln	Asp	Leu	Phe	Ser	Val	Tyr	Met	Asp	Arg	Asn
145					150					155					160
Gly	Gln	Glu	Ser	Met	Leu	Thr	Leu	Gly	Ala	Ile	Asp	Pro	Ser	Tyr	Tyr
				165					170					175	
Thr	Gly	Ser	Leu	His	Trp	Val	Pro	Val	Thr	Val	Gln	Gln	Tyr	Trp	Gln
			180					185					190		
Phe	Thr	Val	Asp	Ser	Val	Thr	Ile	Ser	Gly	Val	Val	Val	Ala	Cys	Glu
		195					200						205		
Gly	Gly	Cys	Gln	Ala	Ile	Leu	Asp	Thr	Gly	Thr	Ser	Lys	Leu	Val	Gly
	210					215					220				
Pro	Ser	Ser	Asp	Ile	Leu	Asn	Ile	Gln	Gln	Ala	Ile	Gly	Ala	Thr	Gln
225					230					235					240
Asn	Gln	Tyr	Gly	Glu	Phe	Asp	Ile	Asp	Cys	Asp	Asn	Leu	Ser	Tyr	Met
				245					250					255	
Pro	Thr	Val	Val	Phe	Glu	Ile	Asn	Gly	Lys	Met	Tyr	Pro	Leu	Thr	Pro
			260					265					270		
Ser	Ala	Tyr	Thr	Ser	Gln	Asp	Gln	Gly	Phe	Cys	Thr	Ser	Gly	Phe	Gln
		275					280					285			
Ser	Glu	Asn	His	Ser	Gln	Lys	Trp	Ile	Leu	Gly	Asp	Val	Phe	Ile	Arg
	290					295					300				

Glu Tyr Tyr Ser Val Phe Asp Arg Ala Asn Asn Leu Val Gly Leu Ala  
305 310 315 320

Lys Ala Ile